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(FILE 'USPAT' ENTERED AT 12:30:09 ON 06 MAY 1999)

L1	1 S 5618536/PN
L2	0 S PAPPILLOMAVIRUS
L3	503 S PAPPILLOMAVIRUS
L4	141 S COSTIMULATORY
L5	9 S L3 AND L4
L6	0 S L5/CLM
L7	1 S 5738852/PN
L8	0 S L3 AND L7

Co Stimulatory MxL FL7  
BD.1

d 15 1-9

1. 5,891,432, Apr. 6, 1999, Membrane-bound cytokine compositions comprising GM-CSF and methods of modulating an immune response using same; William Soo Hoo, 424/93.21, 85.1, 93.2, 192.1; 435/69.7, 252.3, 325; 530/351; 536/23.4 [IMAGE AVAILABLE]
2. 5,885,796, Mar. 23, 1999, CTLA4 receptor and uses thereof; Peter S. Linsley, et al., 435/69.1, 320.1, 325; 530/350; 536/23.1, 23.4, 23.5 [IMAGE AVAILABLE]
3. 5,885,579, Mar. 23, 1999, CTLA4 receptor and uses thereof; Peter S. Linsley, et al., 424/192.1, 133.1, 141.1; 435/7.2, 69.1, 69.7; 514/2, 12; 530/350, 387.1, 866, 868 [IMAGE AVAILABLE]
4. 5,851,795, Dec. 22, 1998, Soluble CTLA4 molecules and uses thereof; Peter S. Linsley, et al., 435/69.1, 69.7, 252.3, 320.1, 325; 530/350, 367, 387.3; 536/23.1, 23.4 [IMAGE AVAILABLE]
5. 5,844,095, Dec. 1, 1998, CTLA4 Ig fusion proteins; Peter S. Linsley, et al., 530/387.3; 424/134.1, 192.1; 435/69.7 [IMAGE AVAILABLE]
6. 5,843,697, Dec. 1, 1998, Cells expressing IL-10 receptor and the CRFB4 gene product, an IL-10 receptor accessory protein; Sidney Pestka, et al., 435/29, 7.21, 320.1, 325; 536/23.5 [IMAGE AVAILABLE]
7. 5,840,839, Nov. 24, 1998, Alternative open reading frame DNA of a normal gene and a novel human cancer antigen encoded therein; Rong-Fu Wang, et al., 530/325, 328 [IMAGE AVAILABLE]
8. 5,831,016, Nov. 3, 1998, Identification of TRP-2 as a human tumor antigen recognized by cytotoxic T lymphocytes; Rong-Fu Wang, et al., 530/350, 300, 328, 828 [IMAGE AVAILABLE]
9. 5,783,567, Jul. 21, 1998, Microparticles for delivery of nucleic acid; Mary Lynne Hedley, et al., 514/44; 435/320.1; 536/23.1 [IMAGE AVAILABLE]

d 13 1-24

L3 ANSWER 1 OF 24 MEDLINE  
AN 1999209489 MEDLINE  
DN 99209489  
TI Expression, purification and immunological characterization of the transforming protein E7, from cervical cancer-associated human **papillomavirus** type 16.  
AU Fernando G J; Murray B; Zhou J; Frazer I H  
CS University of Queensland, Department of Medicine, Princess Alexandra Hospital, Brisbane, Australia.  
NC R01-CA 57789-01 (NCI)  
SO CLINICAL AND EXPERIMENTAL IMMUNOLOGY, (1999 Mar) 115 (3) 397-403.  
Journal code: DD7. ISSN: 0009-9104.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199906  
EW 19990604

L3 ANSWER 2 OF 24 MEDLINE  
AN 1999092474 MEDLINE  
DN 99092474  
TI Mucosal immunisation with **papillomavirus** virus-like particles elicits systemic and mucosal immunity in mice.  
AU Liu X S; Abdul-Jabbar I; Qi Y M; Frazer I H; Zhou J  
CS Centre for Immunology and Cancer Research, University of Queensland, Princess Alexandra Hospital, Brisbane, Australia.  
SO VIROLOGY, (1998 Dec 5) 252 (1) 39-45.  
Journal code: XEA. ISSN: 0042-6822.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199903  
EW 19990304

L3 ANSWER 3 OF 24 MEDLINE  
AN 1998264490 MEDLINE  
DN 98264490  
TI Calcium is required in reassembly of bovine **papillomavirus** in vitro.  
AU Paintsil J; Muller M; Picken M; Gissmann L; Zhou J  
CS Department of Microbiology & Immunology, Loyola University Medical Center,  
Maywood, IL 60153, USA.  
SO JOURNAL OF GENERAL VIROLOGY, (1998 May) 79 ( Pt 5) 1133-41.  
Journal code: I9B. ISSN: 0022-1317.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199808

L3 ANSWER 4 OF 24 MEDLINE  
AN 1998229465 MEDLINE  
DN 98229465  
TI DNA packaging by L1 and L2 capsid proteins of bovine

**papillomavirus type 1.**

- AU Zhao K N; Sun X Y; Frazer I H; **Zhou J**  
CS Centre for Immunology and Cancer Research, University of Queensland,  
Princess Alexandra Hospital, Woolloongabba, Australia.  
SO VIROLOGY, (1998 Apr 10) 243 (2) 482-91.  
Journal code: XEA. ISSN: 0042-6822.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199807
- L3 ANSWER 5 OF 24 MEDLINE  
AN 1998229446 MEDLINE  
DN 98229446  
TI Type specific and genotype cross reactive B epitopes of the L1 protein of  
HPV16 defined by a panel of monoclonal antibodies.  
AU Kulski J K; Sadleir J W; Kelsall S R; Cicchini M S; Shellam G; Peng S W;  
Qi Y M; Galloway D A; **Zhou J**; Frazer I H  
CS Department of Microbiology, Royal Perth Hospital, Western Australia,  
Australia.  
SO VIROLOGY, (1998 Apr 10) 243 (2) 275-82.  
Journal code: XEA. ISSN: 0042-6822.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199807  
EW 19980705
- L3 ANSWER 6 OF 24 MEDLINE  
AN 1998110149 MEDLINE  
DN 98110149  
TI **Papillomavirus** virus-like particles can deliver defined CTL  
epitopes to the MHC class I pathway.  
AU Peng S; Frazer I H; Fernando G J; **Zhou J**  
CS Centre for Immunology and Cancer Research, University of Queensland,  
Princess Alexandra Hospital, Woolloongabba, Qld., Australia.  
NC R01-CA 57789-01 (NCI)  
SO VIROLOGY, (1998 Jan 5) 240 (1) 147-57.  
Journal code: XEA. ISSN: 0042-6822.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199804  
EW 19980403
- L3 ANSWER 7 OF 24 MEDLINE  
AN 97378269 MEDLINE  
DN 97378269  
TI Chimeric **papillomavirus**-like particles.  
AU Muller M; **Zhou J**; Reed T D; Rittmuller C; Burger A; Gabelsberger  
J; Braspenning J; Gissmann L  
CS Department of Microbiology and Immunology, Loyola University Chicago,  
Maywood, Illinois 60153, USA.. mmuelle@wpo.it.luc.edu  
SO VIROLOGY, (1997 Jul 21) 234 (1) 93-111.  
Journal code: XEA. ISSN: 0042-6822.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199710  
EW 19971005
- L3 ANSWER 8 OF 24 MEDLINE

AN 97170867 MEDLINE  
 DN 97170867  
 TI Sequence close to the N-terminus of L2 protein is displayed on the surface of bovine **papillomavirus** type 1 virions.  
 AU Liu W J; Gissmann L; Sun X Y; Kanjanahaluethai A; Muller M; Doorbar J; Zhou J  
 CS Department of Obstetrics and Gynecology, Loyola University Medical Center, Maywood, Illinois 60153, USA.  
 SO VIROLOGY, (1997 Jan 20) 227 (2) 474-83.  
 Journal code: XEA. ISSN: 0042-6822.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199705

L3 ANSWER 9 OF 24 MEDLINE  
 AN 96400182 MEDLINE  
 DN 96400182  
 TI Carboxyl terminus of bovine **papillomavirus** type-1 L1 protein is not required for capsid formation.  
 AU Paintsil J; Muller M; Picken M; Gissmann L; Zhou J  
 CS Department of Microbiology & Immunology, Loyola University Medical Center, Maywood, Illinois 60153, USA.  
 SO VIROLOGY, (1996 Sep 1) 223 (1) 238-44.  
 Journal code: XEA. ISSN: 0042-6822.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199701

L3 ANSWER 10 OF 24 MEDLINE  
 AN 96187789 MEDLINE  
 DN 96187789  
 TI Epithelial cells display separate receptors for **papillomavirus** VLPs and for soluble L1 capsid protein.  
 AU Qi Y M; Peng S W; Hengst K; Evander M; Park D S; Zhou J; Frazer I H  
 CS Papillomavirus Research Unit, University of Queensland, Princess Alexandra Hospital, Woolloongabba, Australia.  
 NC R01-CA 57789-01 (NCI)  
 SO VIROLOGY, (1996 Feb 1) 216 (1) 35-45.  
 Journal code: XEA. ISSN: 0042-6822.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199608

L3 ANSWER 11 OF 24 MEDLINE  
 AN 96095235 MEDLINE  
 DN 96095235  
 TI Early phase in the infection of cultured cells with **papillomavirus** virions.  
 AU Zhou J; Gissmann L; Zentgraf H; Muller H; Picken M; Muller M  
 CS Department of Obstetrics and Gynecology, Loyola University Medical Center, Maywood, Illinois 60153, USA.  
 SO VIROLOGY, (1995 Dec 1) 214 (1) 167-76.  
 Journal code: XEA. ISSN: 0042-6822.  
 CY United States

DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199603

L3 ANSWER 12 OF 24 MEDLINE  
 AN 96074508 MEDLINE  
 DN 96074508  
 TI Sequences required for the nuclear targeting and accumulation of human **papillomavirus** type 6B L2 protein.  
 AU Sun X Y; Frazer I; Muller M; Gissmann L; **Zhou J**  
 CS Department of Obstetrics and Gynecology, Loyola University Medical Center,  
 Maywood, Illinois 60153, USA.  
 SO VIROLOGY, (1995 Nov 10) 213 (2) 321-7.  
 Journal code: XEA. ISSN: 0042-6822.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199603

L3 ANSWER 13 OF 24 MEDLINE  
 AN 95115150 MEDLINE  
 DN 95115150  
 TI **Papillomavirus** capsid binding and uptake by cells from different tissues and species.  
 AU Muller M; Gissmann L; Cristiano R J; Sun X Y; Frazer I H; Jenson A B; Alonso A; Zentgraf H; **Zhou J**  
 CS Department of Obstetrics and Gynecology, Loyola University Medical Center,  
 Maywood, Illinois 60153.  
 SO JOURNAL OF VIROLOGY, (1995 Feb) 69 (2) 948-54.  
 Journal code: KCV. ISSN: 0022-538X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199504

L3 ANSWER 14 OF 24 MEDLINE  
 AN 94206886 MEDLINE  
 DN 94206886  
 TI Limitations of predictive motifs revealed by cytotoxic T lymphocyte epitope mapping of the human papilloma virus E7 protein.  
 AU Sadochnikova E; Zhu X; Collins S M; **Zhou J**; Vousden K; Crawford L; Beverley P; Stauss H J  
 CS ICRF Tumour Immunology Unit, University College London Medical School, Courtauld Institute, UK.  
 SO INTERNATIONAL IMMUNOLOGY, (1994 Feb) 6 (2) 289-96.  
 Journal code: AY5. ISSN: 0953-8178.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199407

L3 ANSWER 15 OF 24 MEDLINE  
 AN 94157456 MEDLINE  
 DN 94157456  
 TI Immune response to human **papillomavirus** type 16 E6 gene in a live vaccinia vector.  
 AU Gao L; Chain B; Sinclair C; Crawford L; **Zhou J**; Morris J; Zhu X; Stauss H  
 CS Department of Biology, University College London, U.K..  
 SO JOURNAL OF GENERAL VIROLOGY, (1994 Jan) 75 ( Pt 1) 157-64.

Journal code: I9B. ISSN: 0022-1317.

CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199406

L3 ANSWER 16 OF 24 MEDLINE  
 AN 94118406 MEDLINE  
 DN 94118406  
 TI Interaction of human **papillomavirus** (HPV) type 16 capsid proteins with HPV DNA requires an intact L2 N-terminal sequence.  
 AU Zhou J; Sun X Y; Louis K; Frazer I H  
 CS Papillomavirus Research Unit, University of Queensland, Princess Alexandra Hospital, Woolloongabba, Australia.  
 NC R01 CA57789-01 (NCI)  
 SO JOURNAL OF VIROLOGY, (1994 Feb) 68 (2) 619-25.  
 Journal code: KCV. ISSN: 0022-538X.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199404

L3 ANSWER 17 OF 24 MEDLINE  
 AN 93242749 MEDLINE  
 DN 93242749  
 TI Glycosylation of human **papillomavirus** type 16 L1 protein.  
 AU Zhou J; Sun X Y; Frazer I H  
 CS Papillomavirus Research Unit, Princess Alexandra Hospital, Brisbane Qld., Australia..  
 SO VIROLOGY, (1993 May) 194 (1) 210-8.  
 Journal code: XEA. ISSN: 0042-6822.  
 CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199307

L3 ANSWER 18 OF 24 MEDLINE  
 AN 93224900 MEDLINE  
 DN 93224900  
 TI Synthesis and assembly of infectious bovine **papillomavirus** particles in vitro.  
 AU Zhou J; Stenzel D J; Sun X Y; Frazer I H  
 CS Papillomavirus Research Unit, Princess Alexandra Hospital, Brisbane, Queensland, Australia.  
 SO JOURNAL OF GENERAL VIROLOGY, (1993 Apr) 74 ( Pt 4) 763-8.  
 Journal code: I9B. ISSN: 0022-1317.  
 CY ENGLAND: United Kingdom  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199307

L3 ANSWER 19 OF 24 MEDLINE  
 AN 92351557 MEDLINE  
 DN 92351557  
 TI Definition of linear antigenic regions of the HPV16 L1 capsid protein using synthetic virion-like particles.  
 AU Zhou J; Sun X Y; Davies H; Crawford L; Park D; Frazer I H  
 CS Papillomavirus Research Unit, University of Queensland, Princess Alexandra Hospital, Australia.  
 SO VIROLOGY, (1992 Aug) 189 (2) 592-9.

SO JOURNAL OF GENERAL VIROLOGY, (1990 Sep) 71 ( Pt 9) 2185-90.  
Journal code: I9B. ISSN: 0022-1317.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals; Cancer Journals  
EM 199101

L3 ANSWER 24 OF 24 MEDLINE  
AN 90246152 MEDLINE  
DN 90246152  
TI Detection of human **papillomavirus** DNA in cytologic specimens  
derived from esophageal precancer lesions and cancer.  
AU Chang F; Shen Q; **Zhou J**; Wang C; Wang D; Syrjanen S; Syrjanen K  
CS Dept. of Pathology, Kuopio Cancer Research Centre, University of Kuopio,  
Finland..  
SO SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY, (1990 Apr) 25 (4) 383-8.  
Journal code: UCS. ISSN: 0036-5521.  
CY Norway  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199008



Journal code: XEA. ISSN: 0042-6822.

CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199211

L3 ANSWER 20 OF 24 MEDLINE  
 AN 92084123 MEDLINE  
 DN 92084123  
 TI The hygromycin-resistance-encoding gene as a selection marker for vaccinia virus recombinants.

AU Zhou J; Crawford L; Sun X Y; Frazer I H  
 CS Department of Medicine, Princess Alexandra Hospital, Woolloongabba, Australia..

SO GENE, (1991 Nov 15) 107 (2) 307-12.  
 Journal code: FOP. ISSN: 0378-1119.

CY Netherlands  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals  
 EM 199203

L3 ANSWER 21 OF 24 MEDLINE  
 AN 92074226 MEDLINE  
 DN 92074226  
 TI Identification of the nuclear localization signal of human papillomavirus type 16 L1 protein.

AU Zhou J; Doorbar J; Sun X Y; Crawford L V; McLean C S; Frazer I H  
 CS Department of Medicine, University of Queensland, Princess Alexandra Hospital, Brisbane, Australia..

SO VIROLOGY, (1991 Dec) 185 (2) 625-32.  
 Journal code: XEA. ISSN: 0042-6822.

CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199203

L3 ANSWER 22 OF 24 MEDLINE  
 AN 92024081 MEDLINE  
 DN 92024081  
 TI Expression of vaccinia recombinant HPV 16 L1 and L2 ORF proteins in epithelial cells is sufficient for assembly of HPV virion-like particles.

AU Zhou J; Sun X Y; Stenzel D J; Frazer I H  
 CS Lions Human Immunology Laboratory, Princess Alexandra Hospital, Brisbane, Queensland, Australia..

SO VIROLOGY, (1991 Nov) 185 (1) 251-7.  
 Journal code: XEA. ISSN: 0042-6822.

CY United States  
 DT Journal; Article; (JOURNAL ARTICLE)  
 LA English  
 FS Priority Journals; Cancer Journals  
 EM 199201

L3 ANSWER 23 OF 24 MEDLINE  
 AN 91011369 MEDLINE  
 DN 91011369  
 TI Increased antibody responses to human papillomavirus type 16 L1 protein expressed by recombinant vaccinia virus lacking serine protease inhibitor genes.

AU Zhou J; Crawford L; McLean L; Sun X Y; Stanley M; Almond N; Smith G L  
 CS Department of Pathology, University of Cambridge, U.K.

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## Document Number 21

Entry 20 of 35

File:DERWENT

May 6, 1999

DERWENT-ACC-NO: 1996-209855

DERWENT-WEEK: 199837

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### TITLE:

Chimeric Papilloma-virus-like particle - for use as vaccine, purification of virus-like particles or fusion partners or for protein delivery to cells.

INVENTOR:GREENSTONE, H; LOWY, D R ; SCHILLER, J T

PATENT-ASSIGNEE: US DEPT HEALTH &amp; HUMAN SERVICES[USSH]

PRIORITY-DATA: 1994US-0319467 (October 6, 1994) , 1992US-0941371 (September 3, 1992) , 1993US-0032869 (March 16, 1993)

### PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10506796 W	July 7, 1998	N/A	040	C12N 015
WO 9611274 A1	April 18, 1996	E	027	C12N 015
AU 9538284 A	May 2, 1996	N/A	000	N/A
US 5618536 A	April 8, 1997	N/A	014	A61K 039
EP 789766 A1	August 20, 1997	E	000	N/A

DESIGNATED-STATES: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE H U IS JP KE KG KP KR KZ LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG UZ VN AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE SZ UG AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

CITED-DOCUMENTS: 1.Jnl.Ref; WO 9300436 ; WO 9302184 ; WO 9405792

### APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP10506796W	N/A	1995WO-US12914	October 6, 1995
JP10506796W	N/A	1996JP-0512667	October 6, 1995
JP10506796W	Based on	WO 9611274	N/A
WO 9611274A1	N/A	1995WO-US12914	October 6, 1995
AU 9538284A	N/A	1995AU-0038284	October 6, 1995
AU 9538284A	Based on	WO 9611274	N/A
US 5618536A	CIP of	1992US-0941371	September 3, 19
US 5618536A	CIP of	1993US-0032869	March 16, 1993
US 5618536A	N/A	1994US-0319467	October 6, 1994
US 5618536A	CIP of	US 5437951	N/A
EP 789766A1	N/A	1995EP-0936278	October 6, 1995
EP 789766A1	N/A	1995WO-US12914	October 6, 1995
EP 789766A1	Based on	WO 9611274	N/A

IPC: A61K039/12; C07K014/025 ; C12N007/00 ; C12N007/04 ; C12N015/09 ;  
C12N015/37 ; C12N015/62 ; C12P021/02

RELATED-ACC-NO: 1993-249995;1998-109811 ;1998-158363 ;1998-271010  
;1998-321522

ABSTRACTED-PUB-NO:US 5618536A

BASIC-ABSTRACT:A papillomavirus-like particle (A), which presents conformational epitopes, comprises: (a) a papillomavirus L1 product; and (b) a papillomavirus L2 fusion product, comprising a chain of amino acids with one part from an L2 protein sequence and another part from a protein sequence other than the L2 protein. USE - (A) is useful as a vaccine (claimed) or for delivering proteins (e.g. toxins or enzymes) to cells. (A) is additionally useful in purification procedures. (A) is specifically useful for delivery of proteins into cells for subsequent processing into peptides which are presented within the context of MHC molecules to elicit a cell-mediate d response (claimed).

ABSTRACTED-PUB-NO:WO 9611274A

EQUIVALENT-ABSTRACT:A papillomavirus-like particle characterised as having conformational epitopes, comprises a papillomavirus L1 product and a papillomavirus L2 fusion product.

CHOSEN-DRAWING:Dwg.0/0 Dwg.0/0

TITLE-TERMS:

CHIMERIC PAPILLOMA VIRUS PARTICLE VACCINE PURIFICATION VIRUS PARTICLE FUSE  
PARTNER PROTEIN DELIVER CELL

DERWENT-CLASS: B04 D16

CPI-CODES: B04-C01F; B04-C01G; B04-E01; B04-F0700E; B04-N04A; B11-B;  
B14-S11A; D05-H07; D05-H12A; D05-H12C; D05-H12F; D05-H14; D05-H17A6;  
D05-H17C;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

M423 M431 M710 M782 M903 N135 P210 Q233 V279 V500

V560 V752 V753 V754

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers:

C1996-067052

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